From: Eden at MichaelHaynes.com

PATENT

Application # 10/664,754

Attorney Docket # 2002P15652US01 (1009-039)

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AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A method for representing HMI user screens comprising the activities of:

via an information device:

obtaining an organization and a hierarchy of a collection comprising a plurality of HMI screen nodes;

automatically determining an arrangement of the collection;

responsive to a detected collision between a parent node of said hierarchy of said

collection and another node, automatically adjusting a position of said parent node; and

rendering the collection according to the arrangement.

- 2. (Original) The method of claim 1, further comprising calculating a position of a leaf.
- 3. (Original) The method of claim 1, further comprising calculating a position of a visible leaf.
- 4. (Original) The method of claim 1, further comprising calculating a position of a parent.
- 5. (Original) The method of claim 1, further comprising detecting a collision.
- (Original) The method of claim 1, further comprising updating a position of a parent.
- 7. (Original) The method of claim 1, further comprising updating a position of a parent upon detecting a collision.

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- 8. (Original) The method of claim 1, further comprising recursively calculating a position of each of the plurality of HMI screen nodes.
- 9. (Original) The method of claim 1, further comprising recursively calculating a position of each of the plurality of HMI screen nodes and updating a position of a parent upon detecting a collision.
- 10. (Currently Amended) The method of claim 1, further comprising changing the a visibility of a node.
- 11. (Currently Amended) The method of claim 1, further comprising changing the <u>a</u> visibility of a node and children of the node.
- 12. (Original) The method of claim 1, wherein the arrangement is a tree arrangement.
- 13. (Original) The method of claim 1, wherein the arrangement is a vertical tree arrangement.
- 14. (Original) The method of claim 1, wherein the arrangement is a horizontal tree arrangement.
- 15. (Original) The method of claim 1, wherein the arrangement is rendered with equal intergenerational node spacing.
- 16. (Original) The method of claim 1, wherein the arrangement is rendered with equal intragenerational node spacing.
- 17. (Original) The method of claim 1, wherein the arrangement is rendered with each parent aligned centrally to all children of that parent.

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- 18. (Original) The method of claim 1, wherein the arrangement is rendered with all nuclear children separated equally.
- 19. (Currently Amended) A machine-readable medium containing instructions for activities comprising:

obtaining an organization and a hierarchy of a collection comprising a plurality of HMI screen nodes;

determining an arrangement of the collection;

responsive to a detected collision between a parent node of said hierarchy of said collection and another node, automatically adjusting a position of said parent node; and rendering the collection according to the arrangement.

20. (Currently Amended) A device for providing a representation of user screens for an HMI comprising:

means for obtaining an organization and a hierarchy of a collection comprising a plurality of HMI screen nodes;

means for determining an arrangement of the collection;

a processor adapted to, responsive to a detected collision between a parent node of said hierarchy of said collection and another node, automatically adjust a position of said parent node; and

means for rendering the collection according to the arrangement.